



Construction of Treasury Building at Kuthar, Himachal Pradesh



Location	: Kuthar, Himachal Pradesh
Site Area	: 125.9 m ²
Built up Area	: 276.95 m ²
Typology	: Mixed use building
Rating Category	: SVA GRIHA Final Rating
Version	: Version 2.2
Year of Award	: 2023
Client	: Treasuries, Accounts and Lotteries, Himachal Pradesh
Integrated Design Team	: Chief Architect, PWD, Himachal Pradesh
Green Building Consultant	: Design2Occupancy Services LLP

The following strategies were adopted by the project team to reduce the building impact on the environment:

Sustainable Site Planning:

- 4 new native trees have been planted on site.
- Ventilators have been provided in habitable spaces to increase cross-ventilation.

Energy:

- 85.66% of the total living area is day-lit.
- LPD of the project is 3.44 W/m², which is lower than the ECBC specified limit of 10.80 W/m² for office buildings.
- BEE 5-star rated geysers and fans have been installed.
- Solar hot water system of 200 LPD capacity has been installed.
- Solar photovoltaic system of capacity 3 kWp has been installed.

Water Management:

- Reduction of 27.14% from the SVA GRIHA base case has been demonstrated in building water demand by installing low-flow plumbing fixtures.
- Reduction of 79.01% from the SVA GRIHA base case has been demonstrated in landscape water demand by using native trees.
- Rainwater storage tank of 6,000 litres capacity has been constructed on site.

Sustainable Building Materials:

- 100% of interior paints used in the project are low VOC and lead-free.
- Granite, vitrified tiles and kota stone have been used as flooring material.

Lifestyle:

- Most of the basic amenities such as grocery store, ATM/Bank, pharmacy, restaurant, school, temple and park are in close proximity to the site.
- Environmental awareness signage's have been displayed at various locations.
- Electric charging point has been provided to encourage the use of electric vehicles and reduce carbon emission.
- All chairs and workstation procured for the project were low-energy material.

Waste Management:

- Organic waste composter has been installed in the project.